## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 24 February 2005 (24.02.2005)

**PCT** 

## (10) International Publication Number WO 2005/016380 A1

- (51) International Patent Classification<sup>7</sup>: A61K 39/395, 38/20, A61P 35/02 // (A61K 39/395, 38:20)
- (21) International Application Number:

PCT/US2004/017921

- (22) International Filing Date: 4 June 2004 (04.06.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/491,371

30 July 2003 (30.07.2003) U

- (71) Applicant (for all designated States except US): CHIRON CORPORATION [US/US]; Intellectual Property, R338, Emeryville, CA 94662-8097, P.O. Box 8097 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HURST, Deborah [US/US]; C/o Chiron Corporation, Intellectual PropertyR338, 4560 Horton Street, Emeryville, CA 94608-2916 (US). OSTERBORG, Anders [SE/SE]; Karolinska Hospital, S-171 76 Stockholm (SE). QUADT, Cornelia [DE/US]; C/o Chiron Corporation, Intellectual PropertyR338, 4560 Horton Street, Emeryville, CA 94608-2916 (US). WOLIN, Maurice, J. [US/US]; C/o Chiron Corporation, Intellectual PropertyR338, 4560 Horton Street, Emeryville, CA 94608-2916 (US). MILAN, Sandra [US/US]; C/o Chiron Corporation, Intellectual PropertyR338, 4560 Horton Street, Emeryville, CA 94608-2916 (US).

- (74) Agents: CHIRON CORPORATION et al.; Intellectual Property, R338, P.O. Box 8097, Emeryville, CA 94662-8097 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

**101**6

(54) Title: METHODS OF THERAPY FOR CHRONIC LYMPHOCYTIC LEUKEMIA

(57) Abstract: Methods for treating a human with chronic lymphocytic leukemia using a combination of an interleukin-2 and an anti-CD52 antibody are provided. These therapeutic agents are administered as two separate pharmaceutical compositions, one containing an IL-2, the other containing an anti-CD2 antibody, according to a dosing regiment. Administering of these two therapeutic agents together results in a positive therapeutic response that is improved with respect to that observed with anti-CD52 antibody alone.